

1-12 (canceled)

13. (New) A cooking, roasting, baking or grilling device including a part or portion thereof having a substrate with a self-cleaning coating thereon which enables remnants of foodstuffs to be removed without mechanical action, comprising:

the coating having a structure formed from a plurality of porous particles having pores therein and a binder; and

said pores in said porous particles in said structure not having a solid or liquid secondary phase therein.

14. (New) The device according to claim 13, including said porous particles are thermally and chemically stable porous metal oxides, carbides or nitrides.

15. (New) The device according to claim 13, including said porous particles are SiO_2 , TiO_2 , Al_2O_3 , ZrO_2 , SiC , Si_3N_4 , C and B_2O_3 , preferably gamma- Al_2O_3 and SiO_2 .

16. (New) The device according to claim 13, including said porous particles having a diameter substantially in the range of five (5) to one hundred (100) microns, in particular one of ten (10) to eighty (80) microns, twenty (20) to sixty (60) microns or thirty (30) to fifty (50) microns.

17. (New) The device according to claim 13, including said porous particles having open-cell pores.

18. (New) The device according to claim 1, including said binder is an inorganic binder and substantially permanently

temperature resistant up to substantially five hundred (500) degrees C, in particular said inorganic binder is an inorganic polymer, such as silicone resin or an inorganic sol, both formed on the basis of SiO_2 , TiO_2 , Al_2O_3 , ZrO_2 , SiC , Si_3N_4 , or B_2O_3 or mixtures of at least two of the following, an open-cell or dense glass, a polymeric phosphate, a silicate, a clay or water glass.

19. (New) The device according to claim 18, including said binder are particles having a diameter substantially in the range of five tenths (0.5) to ten (10) microns, in particular one of one (1) to five (5) microns.

20. (New) The device according to claim 13, including said coating including addition particles, in particular particles that function to at least one of, reduction of the roughness of the coating, improvement of binding between said porous particles, improvement of binding between said coating and the substrate, adjustment of the color of said coating, or improvement of the thermal decomposition, the haptics or the spreading ability of said coating.

21. (New) The device according to claim 20, including said addition particles are at least one of nanoscale particles, particles in the micrometer range, pigment particles, metals, in particular transition metals or metal oxides, in particular transition metals.

22. (New) The device according to claim 21, including said addition particles are thermally and chemically stable, in

particular metal oxides, carbides and nitrides, such as SiO_2 , TiO_2 , Al_2O_3 , ZrO_2 , SiC , Si_3N_4 , or B_2O_3 .

23. (New) The device according to claim 13, including the part or portion is a part or portion of a baking oven muffle.

24. (New) The device according to claim 13, including the part or portion is a part or portion of an oven or a stove.